

FIG. 1

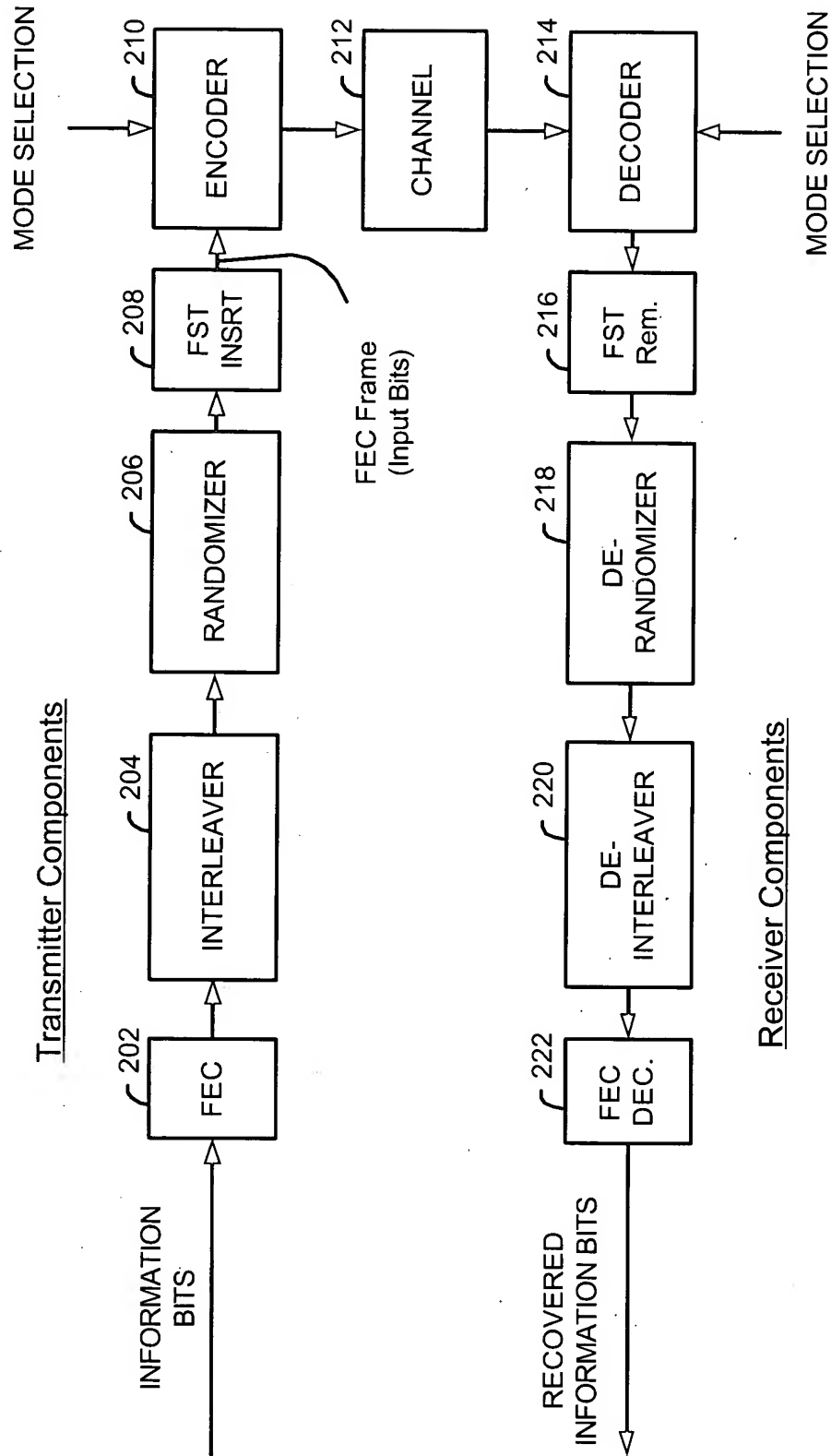


FIG. 2

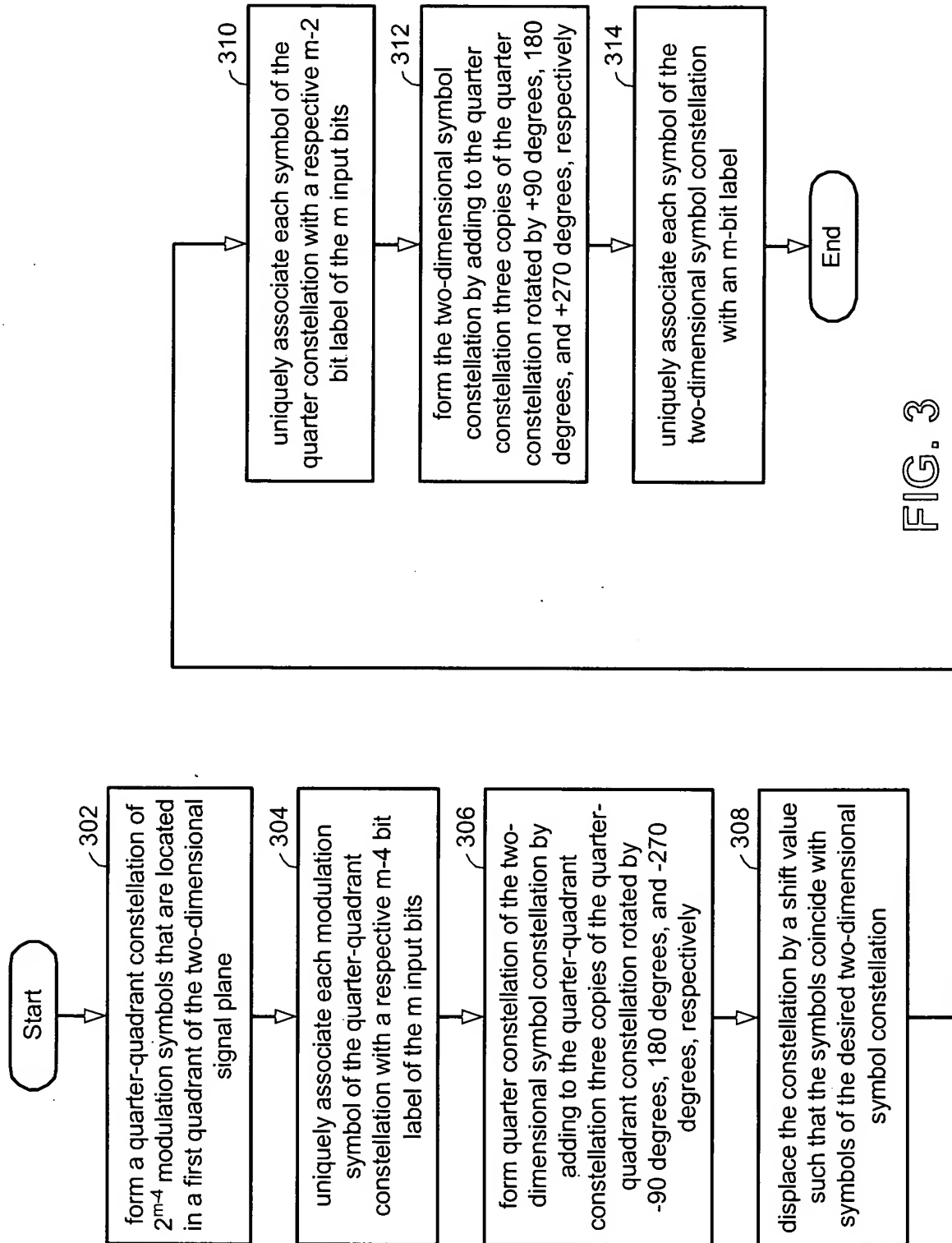
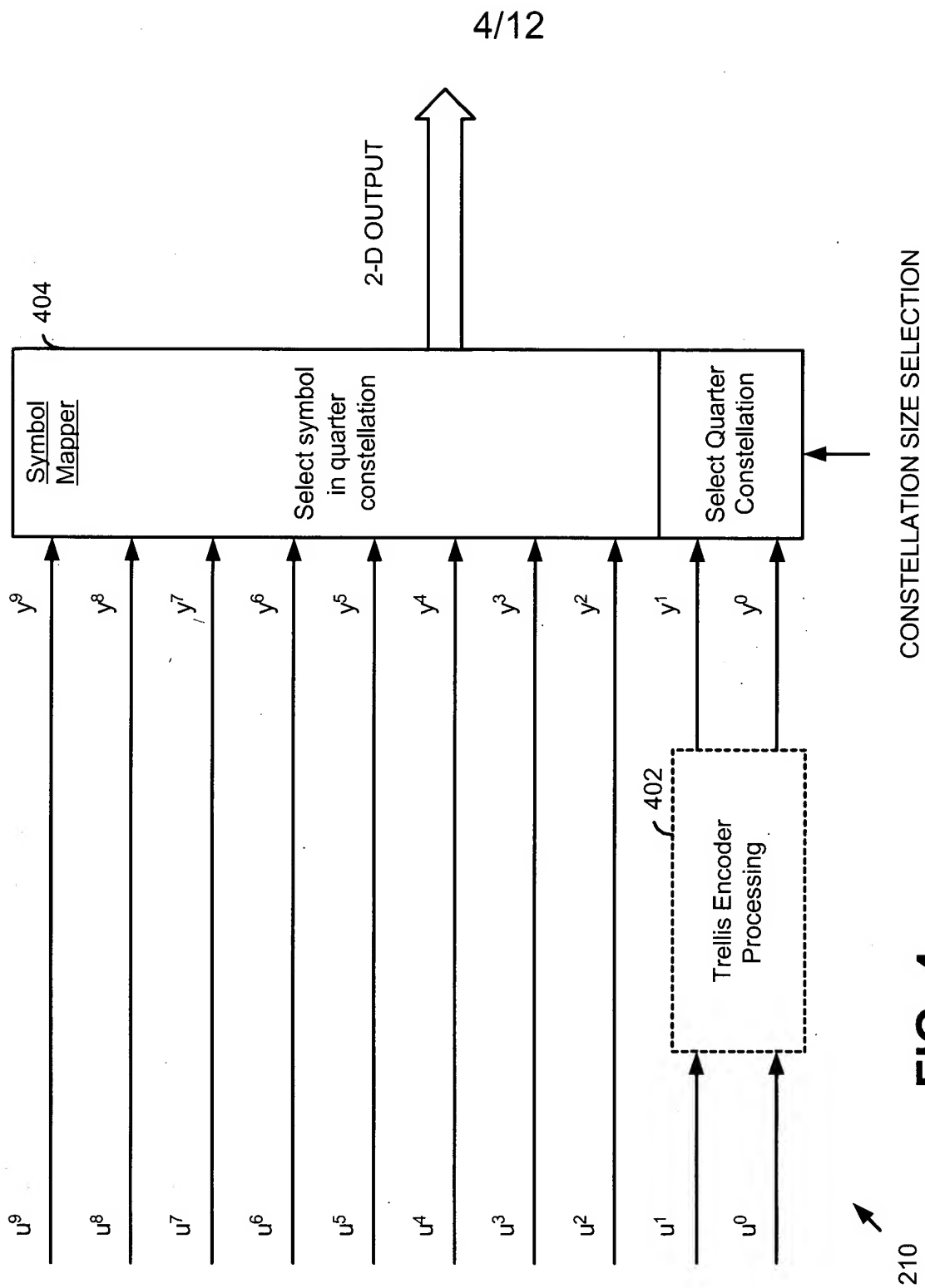
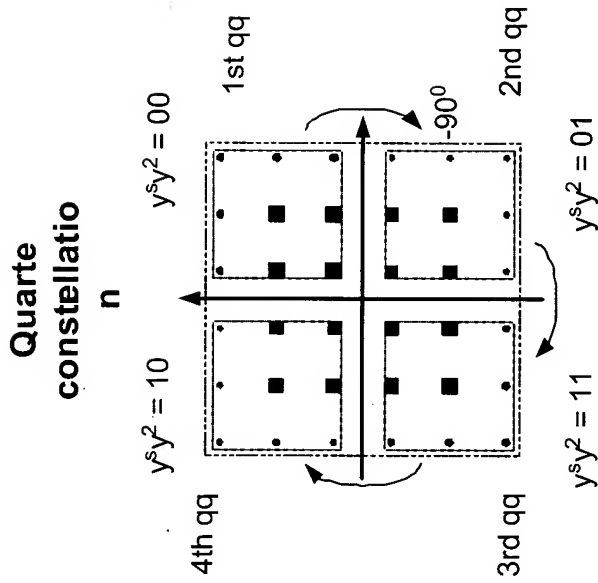


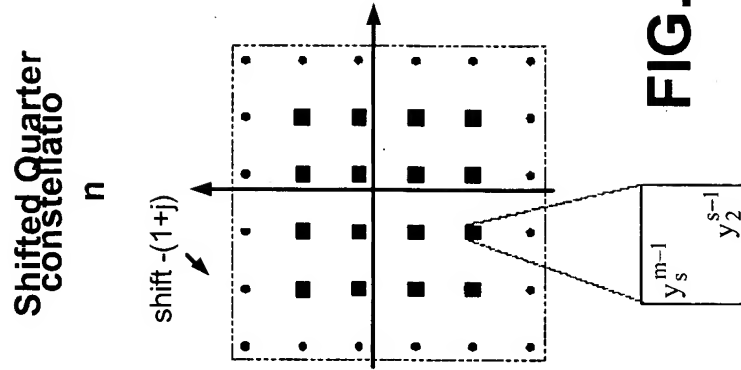
FIG. 3



**FIG. 4**

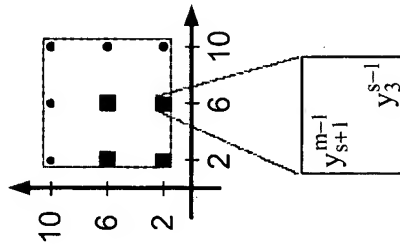


**FIG. 5B**



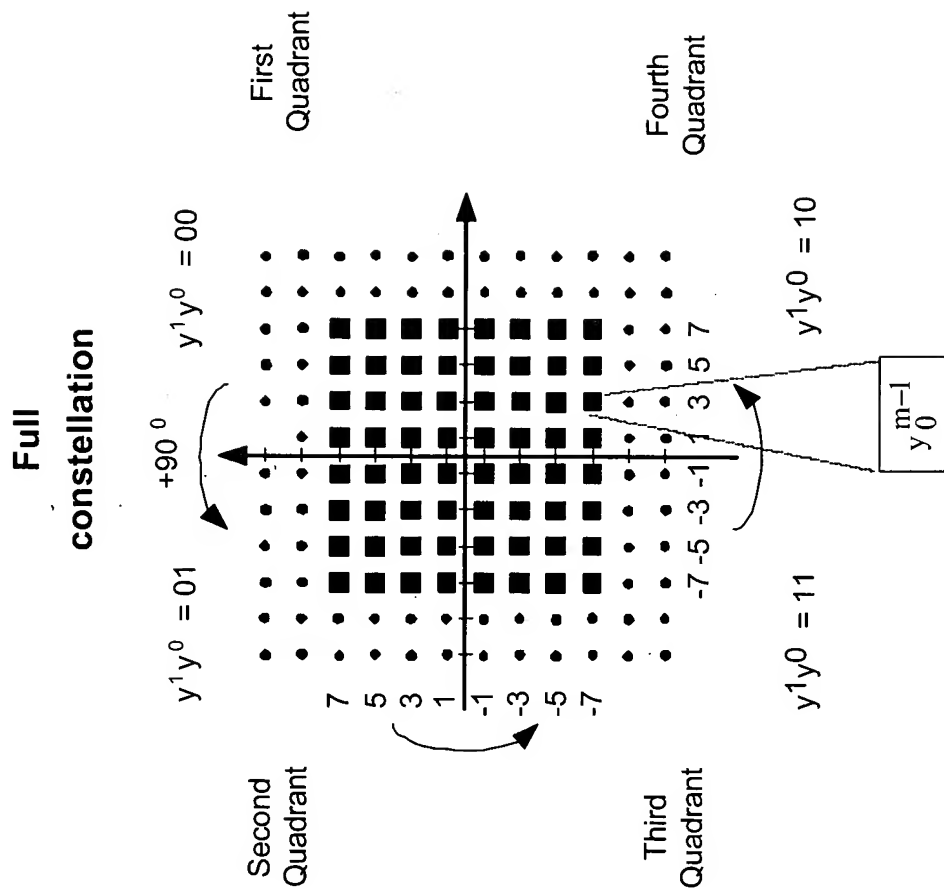
**FIG. 5C**

**Quarter-quadrant (qq) constellation**



$a_{qq}(y_{s+1}^{m-1}, y_3^{s-1}) \in \{2, 6, 10, \dots\} + j\{2, 6, 10, \dots\}$

**FIG. 5A**

**FIG. 6**

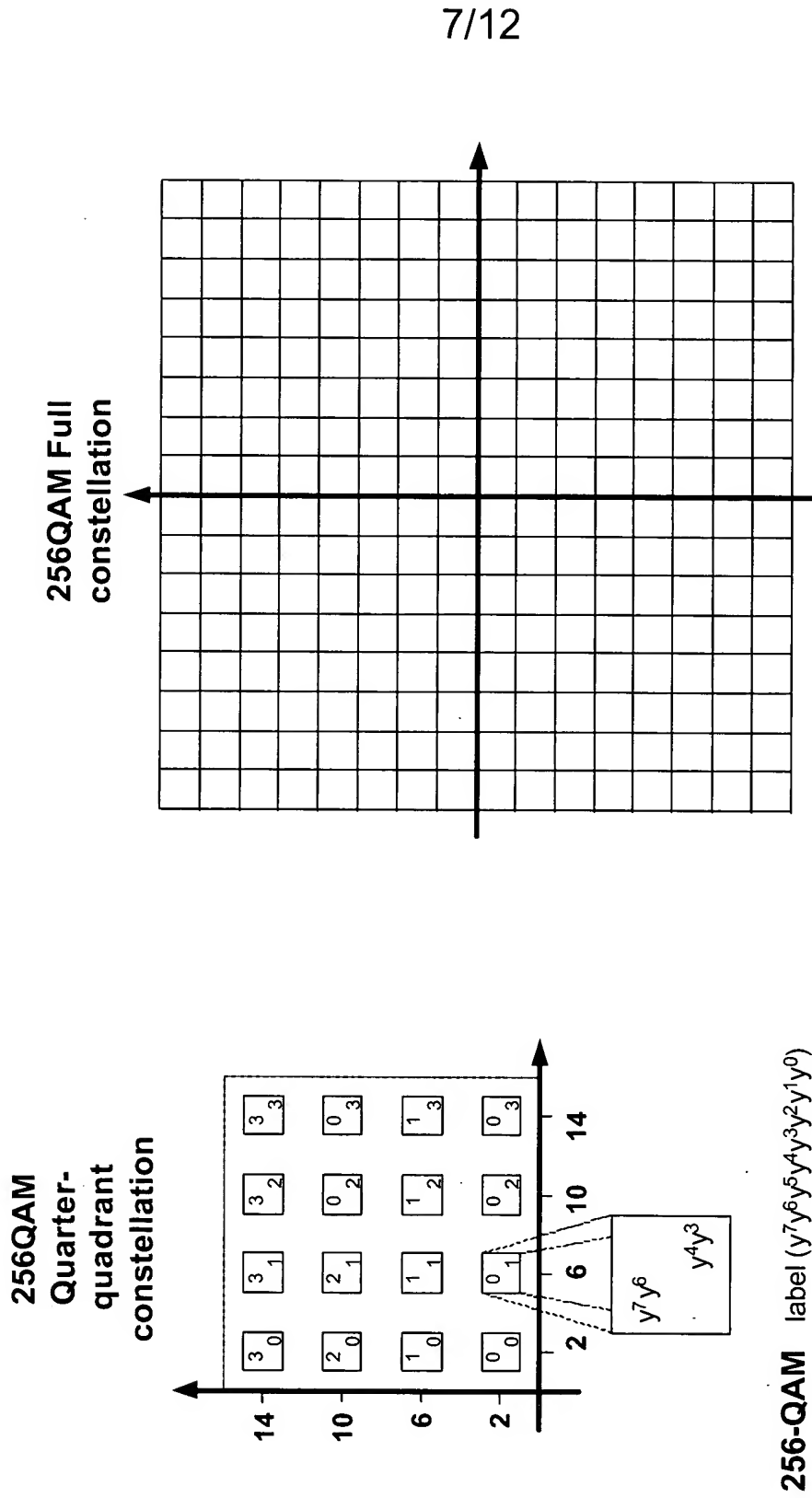


FIG. 7A

FIG. 7B

512 QAM  
Quarter-quadrant  
constellation

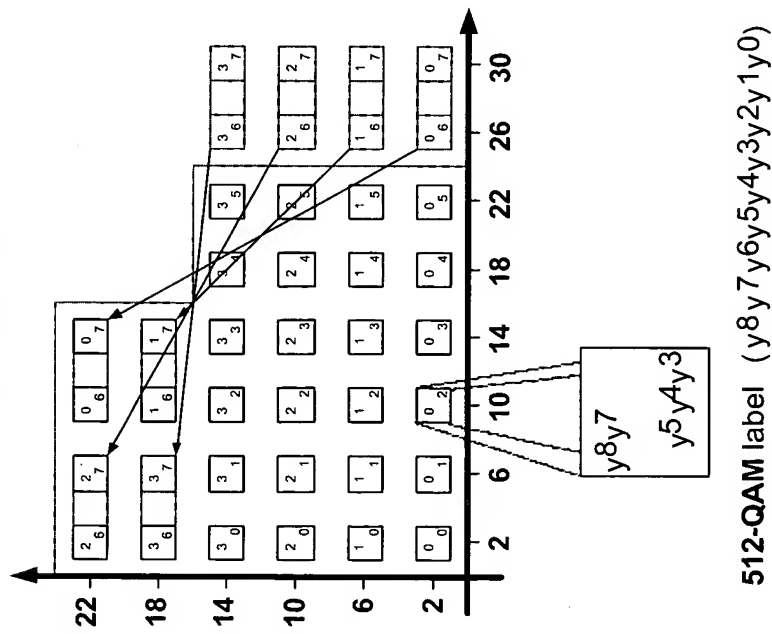


FIG. 8A

Full 512QAM  
constellation

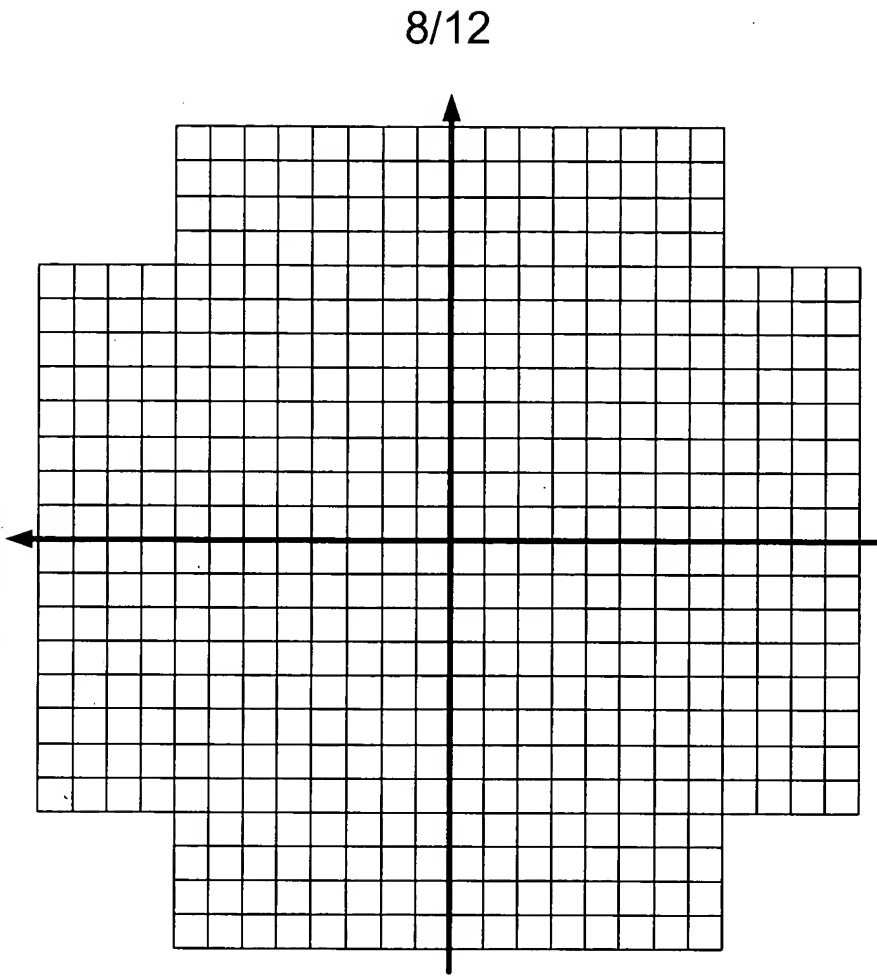


FIG. 8B



1024QAM  
Quarter-  
quadrant  
constellation

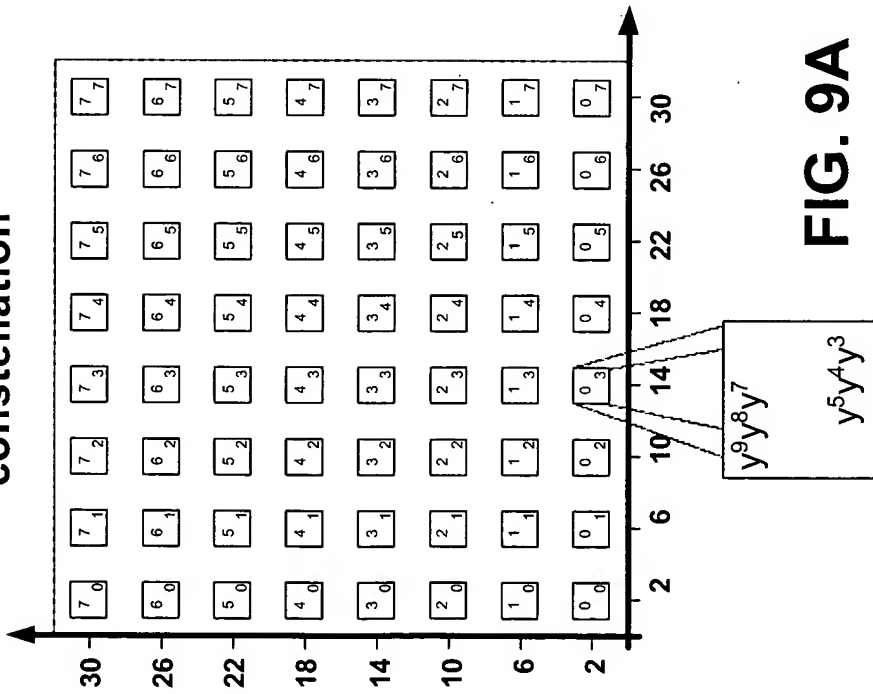


FIG. 9A

1024-QAM label ( $y^9y^8y^7y^6y^5y^4y^3y^2y^1y^0$ )

1024QAM Full  
constellation

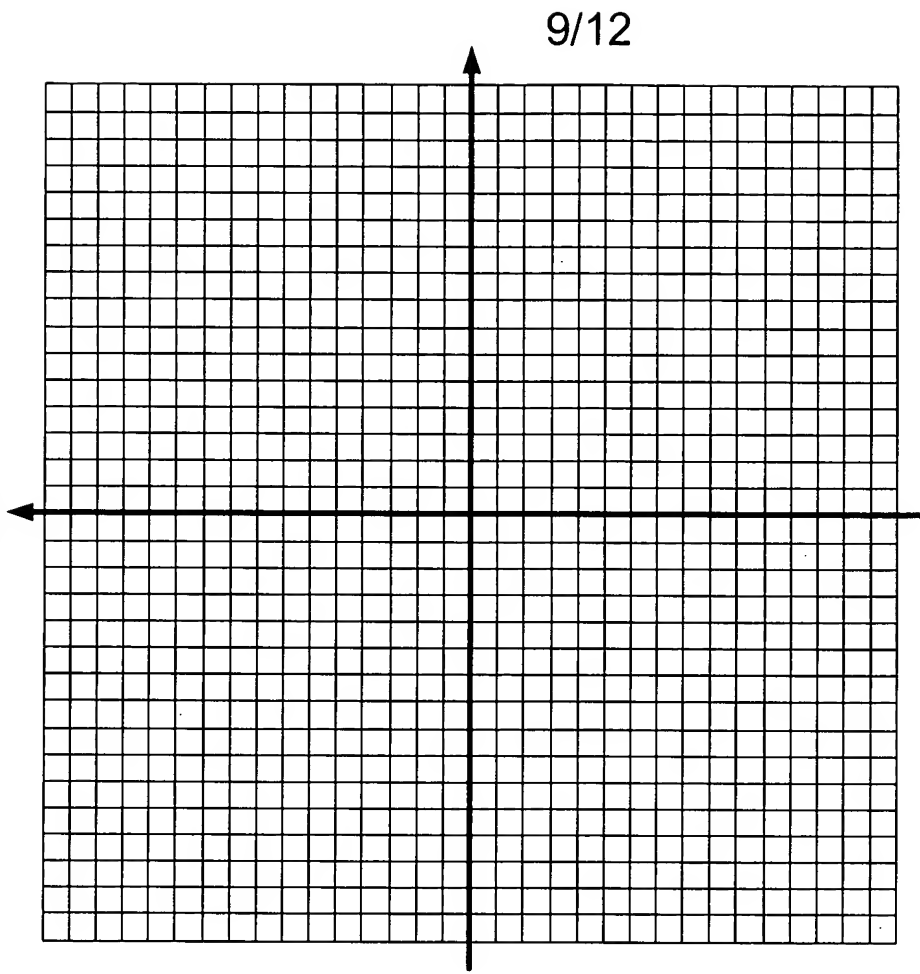
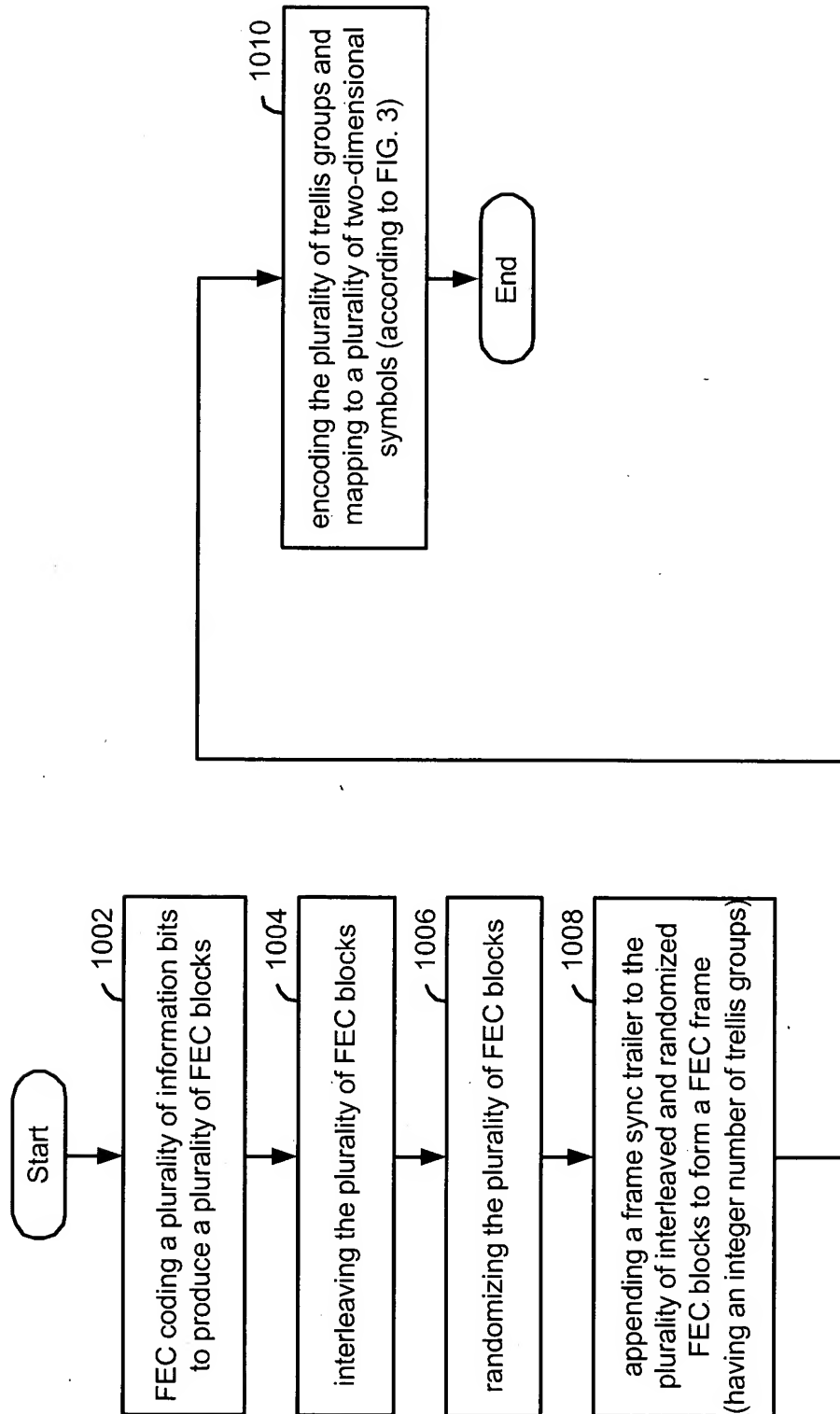
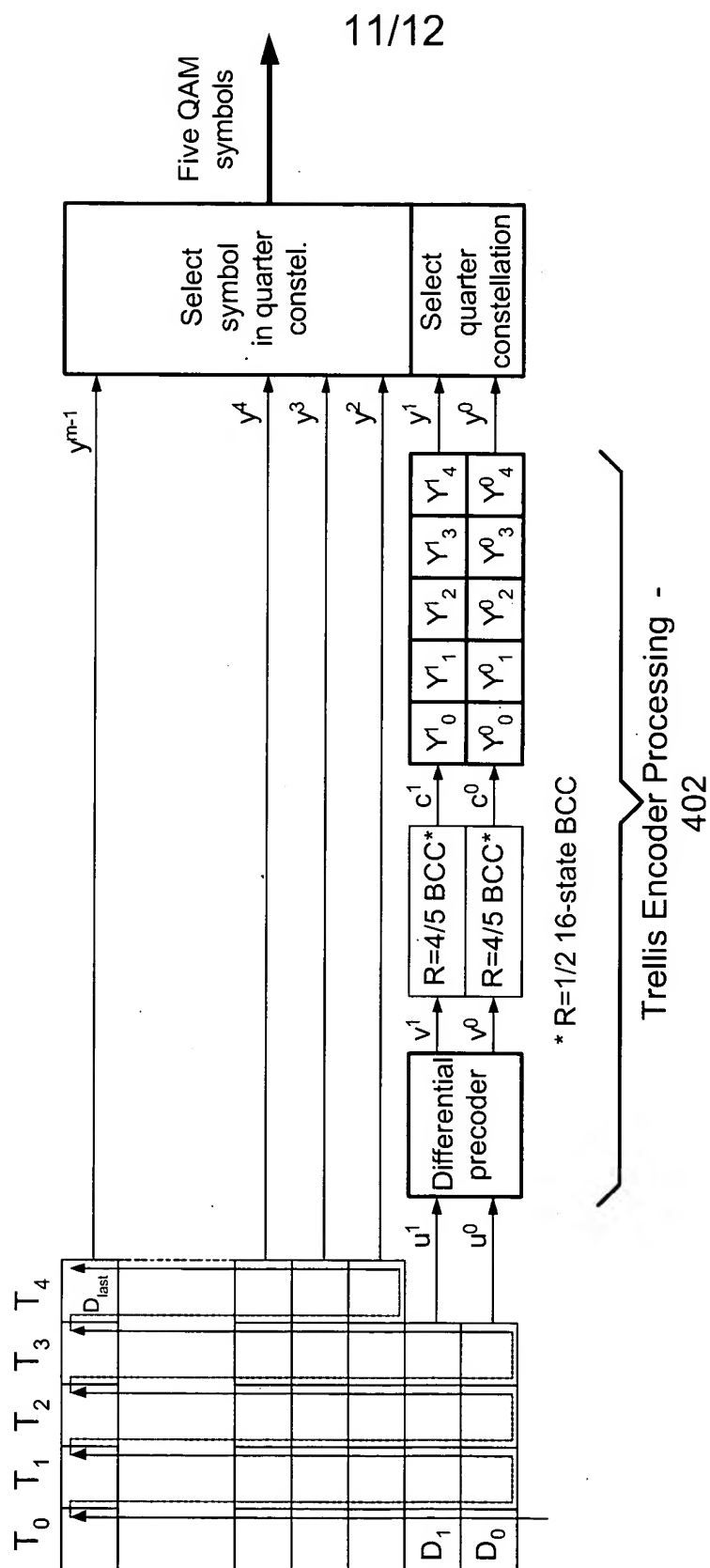
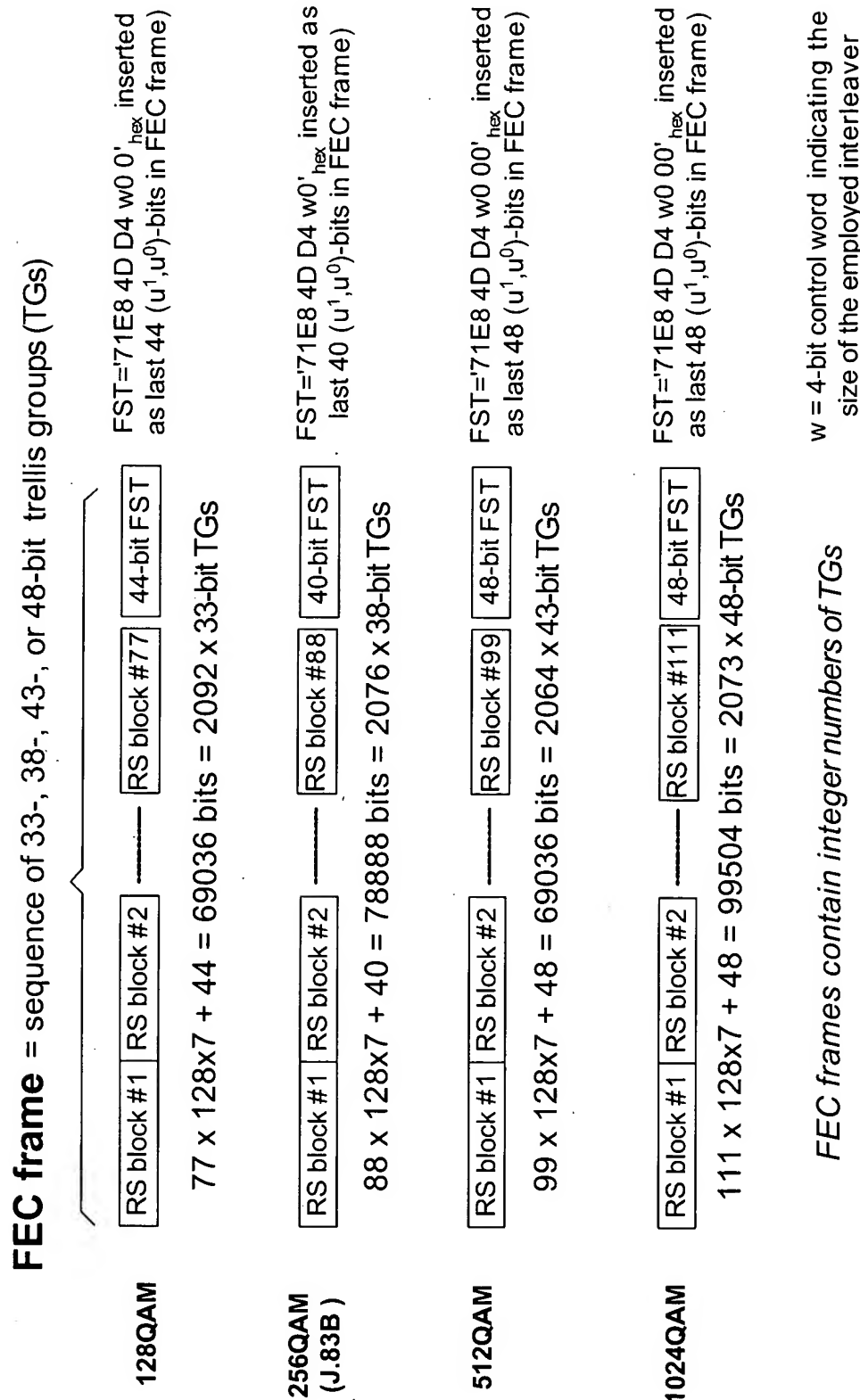


FIG. 9B

**FIG. 10**



**FIG. 11**



**FIG. 12**